Contents

3 Thiede, J. & Bauch, H. A.: The Late Quaternary history of northern Eurasia and the adjacent Arctic Ocean: an introduction to QUEEN

6 Larsen, E., Funder, S. & Thiede, J.: Late Quaternary history of northern Russia and adjacent shelves—a synopsis

11 Saarnisto, M., Eriksson, B. & Hirvas, H.: Tepsankumpu revisited—pollen evidence of stable Eemian climates in Finnish Lapland

23 Astakhov, V. I., Mangerud, J., Matioushkov, A., Svendsen, J. I., Maslenikova, O. & Tveranger, J.: Marginal formations of the last Kara and Barents ice sheets in northern European Russia

46 Mangerud, J., Svendsen, J. I. & Astakhov, V. I.: Age and extent of the Barents and Kara ice sheets in Northern Russia

81 Tveranger, J., Astakhov, V. I., Mangerud, J. & Svendsen, J. I.: Surface form of the south-western sector of the last Kara Sea Ice Sheet

92 Möller P., Bolshiyanov, D. Yu. & Bergsten, H.: Weichselian geology and palaeoenvironmental history of the central Taymyr Peninsula, Siberia, indicating no glaciation during the last global glacial maximum

115 Larsen, E., Lysså, A., Demidov, I., Funder, S., Houmark-Nielsen, M., Kjær, K. H. & Murray, A. S.: Age and extent of the Scandinavian ice sheet in northwest Russia

133 Forman, S. L., Lubinski, D. J., Zeeberg, J. J., Polyak, L., Miller, G. H., Matishov, G. & Tarasov, G.: Postglacial emergence and Late Quaternary glaciation on northern Novaya Zemyla, Arctic Russia

146 Corner, G. D., Yevzerov, V. Y., Kolka, V. V. & Møller, J. J.: Isolation basin stratigraphy and Holocene relative sea-level change at the Norwegian Russian border north of Nikel, northwest Russia

167 Harwart, S., Hagedorn, B., Melles, M. & Wand, U.: Lithological and biochemical properties in sediments of Lama Lake as indicators for the late Pleistocene and Holocene ecosystem development of the southern Taymyr Peninsula, Central Siberia

181 Kienel, U., Siegert, C. & Hahne, J.: Late Quaternary palaeoenvironmental reconstructions from a permafrost sequence (North Siberian Lowland, SE Taymyr Peninsula)—a multidisciplinary case study

194 Bauch, H. A., Kassens, H., Erlenkeuser, H., Grootes, P. M. & Thiede, J.: Depositional environment of the Laptev Sea (Arctic Siberia) during the Holocene

205 Peregovich, B., Hoops, E. & Rachold, V.: Sediment transport to the Laptev Sea (Siberian Arctic) during the Holocene—evidence from the heavy mineral composition of fluvial and marine sediments

215 Wahsner, M., Müller, C., Stein, R., Ivanov, G., Levitan, M., Shelekhova, E. & Tarasov, G.: Clay-mineral distribution in surface sediments of the Eurasian Arctic Ocean and continental margin as indicator for source areas and transport pathways—a synthesis

234 Svendsen, J. I., Astakhov, V. I., Demidov, I., Bolshiyanov, D. Yu., Dowdeswell, J. A., Gataullin, V., Hjort, Ch., Hubberten, H. W., Larsen, E., Mangerud, J., Melles, M., Möller, P., Saarnisto, M. & Siegert, M. J.: Maximum extent of the Eurasian ice sheets in the Barents and Kara Sea region during the Weichselian

243 Lotter, A. F. & Lemcke, G.: Methods for preparing and counting biochemical varves

253 Huddart, D., Bennett, M. R. & Glasser, N. F.: Morphology and sedimentology of a high-arctic esker system: Vegbreen, Svalbard

274 Eriksson, B., Grönlund, T. & Uutela, A.: Biostratigraphy of Eemian sediments at Mertuanoja, Pohjanmaa (Ostrobothnia), western Finland

292 Andersson, T., Forman, S. L., Ingólfsson, Ó. & Manley, W. F.: Late Quaternary environmental history of central Prins Karls Forland, Western Svalbard

308 Stea, R. R. & Pe-Piper, G.: Using whole rock geochemistry to locate the source of igneous erratics from drumlins on the Atlantic Coast of Nova Scotia

326 Sejrup, H. P., Iversen, M., Larsen, E., Landvik, J. Y. & Janocko, J.: A stage 7 marine interglacial record (the Grødeland Interglacial) on Jæren, southwestern Norway; foraminiferal, stable isotopes and amino acid evidence

347 Dreybrodt, W.: Chemical kinetics, speleothem growth and climate

357 Yonge, C. J. & MacDonald, W. D.: The potential of perennial cave ice in isotope palaeoclimatology

363 Piotrowski, J. A., Geletneky, J. & Vater, R.: Soft-bedded subglacial meltwater channel from the Welzow-Süd open-cast lignite mine, Lower Lusatia, eastern Germany

375 Dundas, R. G.: Quaternary records of the dire wolf, *Canis dirus*, in North and South America

386 Krüger, J. & Kjær, K. H.: A data chart for field description and genetic interpretation of glacial diamicts and associated sediments—with examples from Greenland, Iceland, and Denmark

403 Grøsfjeld, K., Larsen, E., Sejrup, H. P., de Vernal, A., Flatebø, T., Vestbø, M., Haflidason, H. & Aarseth, I.: Dinoflagellate cysts reflecting surface-water conditions in Voldafjorden, western Norway during the last 11 300 years

416 Hoek, W. Z., Bohncke, S. J. P., Ganssen, G. M. & Meijer, T.: Lateglacial environmental changes recorded in calcareous gyttja deposits at Gulickshof, southern Netherlands

435 Editor's Note

437 Jensen, J. B., Bennike, O., Witkowski, A., Lemke, W. & Kuijpers, A.: Early Holocene history of the southwestern Baltic Sea: the Ancylus Lake stage

454 Nemec, W., Lønne, I. & Blikra, L. H.: The Kregnes moraine in Gauldalen, west-central Norway: anatomy of a Younger Dryas proglacial delta in a palaeofjord basin

477 Colgan, P. M.: Early middle Pleistocene glacial sediments (780 000 to 620 000 BP) near Kansas City, northeastern Kansas and northwestern Missouri, USA

490 Hedenström, A. & Risberg, J.: Early Holocene shore-displacement in southern central Sweden as recorded in elevated isolated basins

505 Vorren, K.-D. & Alm, T.: Late Weichselian and Holocene environments of lake Endletvatn, Andoya, northern Norway: as evidenced primarily by chemostratigraphical data

521 Koutaniemi, L.: Twenty-one years of string movements on the Liippasuo aapa mire, Finland

531 Hicock, S. R. & Lian, O. B.: Cordilleran Ice Sheet lobal interactions and glaciotectonic superposition through stadial maxima along a mountain front in southwestern British Columbia, Canada

543 Worsley, P.: Context of relict Wisconsinan glacial ice at Angus Lake, SW Banks Island, western Canadian Arctic and stratigraphic implications

551 Antoine, P., Rousseau, D.-D., Lautridou, J.-P. & Hatté, C.: Last interglacial-glacial climatic cycle in loess-palaeosol successions of north-western France

564 Hammarlund, D.: Ostracod stable isotope records from a deglacial isolation sequence in southern Sweden

575 Wohlfarth, B., Bennike, O., Brunnberg, L., Demidov, I., Possnert, G. & Vyahirev, S.: AMS ^{14}C measurements and macrofossil analysis of a varved sequence near Pudozh, eastern Karelia, NW Russia

433 Boreas Book Reviews

587 Boreas Acknowledgements